Table A-25. Trends in company and other non-Federal funds for performance of industrial basic research, applied research, and development in the U.S., in current and in constant dollars: 1953-2001

Page 1 of 2

Vear Constant 1996		To	tal	Racio re	sparch	Annlied	rosparch	Page 1 of 2 Development	
Pear		10		Dasicité		Applieu		Deveio	
		Current		Current		Current		Current	
1953 2.200									
1953	Year	dollars	dollars	dollars				dollars	dollars
1954		2 200	11 400	100				1 (20	0.470
1955 2,460 12,437 162 819 560 2,831 1,738 8,787 1956 3,277 16,024 216 1,056 794 3,883 2,267 11,086 1957 3,396 16,072 220 1,088 992 4,695 2,174 10,289 1958 3,630 16,774 252 1,165 1,137 5,254 2,241 10,356 1959 3,983 18,204 248 1,133 1,178 5,384 2,557 11,686 1960 4,428 19,955 297 1,338 1,196 5,390 2,557 11,686 1960 4,428 19,955 297 1,338 1,196 5,390 3,227 3,189 14,211 1962 5,029 22,115 345 1,517 1,438 6,324 3,246 14,274 1962 5,029 22,115 345 1,517 1,438 6,324 3,246 14,274 1963 5,500 23,304 375 1,630 1,450 6,304 3,535 15,370 1964 5,792 24,816 384 1,645 1,560 6,684 3,848 16,487 1965 64,45 27,103 406 1,707 1,620 6,684 3,848 16,487 1966 7,216 29,501 451 1,844 1,804 7,375 4,961 20,282 1967 8,020 31,813 427 1,694 1,849 7,334 5,744 22,785 1968 8,869 9,867 35,727 458 1,660 2,272 8,235 7,127 25,832 1970 10,288 35,403 444 1,528 2,378 8,183 7,466 25,692 1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,832 1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,832 1972 11,535 36,251 46,3 4,495 2,492 3,493 3,304 3,406 4,409 3,912 2,488 3,849 1,975 25,440 3,498 3,494 1,456 4,467 40,052 5,366 4,493 3,404 3,498 4,494 4,441 4,404 3,498 3,494 1,588 3,494 1,588 3,494 1,588 3,494 1,588 3,494 1,588 3,494 1,597 4,494 4,441 4,494 4,441 4,494 4,441 4,494 4,441 4,494 4,441 4,494 4,441 4,494 4,441 4,444 4,44									
1956	1954	2,320	11,934	143	730	492	2,031	1,000	0,000
1957	1955 ¹	2,460	12,437	162	819	560		1,738	8,787
1958 3,630 16,774 252 1,165 1,137 5,254 2,241 10,356 1959 3,983 18,204 248 1,133 1,178 5,384 2,557 11,686 1960 4,428 19,955 297 1,338 1,196 5,390 2,935 13,227 1961 4,668 20,802 314 1,399 1,165 5,192 3,189 14,211 1962 5,029 22,115 345 1,517 1,438 6,324 3,246 14,274 1963 5,360 23,304 375 1,630 1,450 6,304 3,535 15,370 1964 5,792 24,816 384 1,645 1,560 6,684 3,848 16,487 1965 6,445 27,103 406 1,707 1,620 6,812 4,419 18,583 1966 7,216 29,501 451 1,844 1,804 7,375 4,961 20,282 1968 8,869 33,722 4462 1,757 2,081 7,913 6,326 24,053 1969 9,857 35,727 458 1,660 2,441 7,998 7,757 25,816 1970 10,288 35,403 444 1,528 2,378 8,183 7,466 25,692 1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,416 1972 11,535 36,251 463 1,455 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1976 17,436 41,220 634 1,494 2,441 7,998 7,757 25,416 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,263 8,910 10,868 29,678 1977 19,340 42,999 701 1,557 4,311 9,576 14,328 31,826 1979 1,458 1,628 4,870 10,097 16,460 34,128 1979 1,458 1,628 4,870 10,097 16,460 34,128 1980 1,458 1,628 4,870 10,097 16,460 34,128 1,299 1,299 1,290 1,29								2,267	
1959 3.983 18.204 248 1,133 1,178 5.384 2.557 11.686 1960 4.428 19.955 297 1,338 1,196 5.390 2.935 13.227 1961 4.668 20.802 314 1,399 1,165 5.192 3.189 14.211 1962 5.029 22,115 345 1.517 1,438 6.324 3.246 14.274 1963 5.360 23.304 375 1,630 1,450 6.304 3.535 15.370 1964 5.792 24.816 384 1,645 1,560 6.684 3.848 16.487 1965 6.445 27,103 406 1,707 1,620 6.812 4.419 18.583 1966 7.216 29,501 451 1.844 1.804 7,375 4,961 20.285 1967 8.020 31.813 427 1,694 1.849 7,334 5,744 22.785 1968 8.869 33.722 402 1,757 2,081 7,913 6.326 24.053 1969 9.857 35.727 458 1,660 2.272 8.235 7,127 25.832 1970 10.288 35.403 444 1,528 2.378 8.183 7.466 25.692 1971 10.664 34.908 456 1,494 2.441 7,998 7,757 25.416 1972 11.555 36.251 40.3 1,455 2.562 8.022 8.10 2.778 1973 13.104 39.000 499 1,485 2.832 8.429 9,773 29.086 1975 15.582 38.926 573 1,461 3.263 8.910 10.868 29.678 1977 19.340 42.999 701 1.557 4.311 9,576 14.328 31.826 1978 22.115 45.853 7.85 1.628 4.870 10.097 16.460 34.128 1990 30.476 53.429 1.035 1.815 6.550 11.483 22.891 40.131 1981 35.428 56.803 1.313 2.105 8.399 13.402 25.756 41.295 1982 40.105 60.536 1.523 2.2994 11.541 16.155 37.731 52.815 1983 44.588 66.672 83.122 2.984 11.541 16.155 37.731 52.815 1986 59.992 79.580 3.496 4.642 1.5133 19.532 42.667 54.997 1987 40.105 60.536 1.523 2.2994 1.1541 16.155 37.731 52.815 1986 59.992 79.580 3.496 4.642 1.5133 19.532 42.667 54.997 1987 40.105 60.536 6.255 6.831 21.425 23.896 63.030 70.299 1987 40.105 60.656 6.256 6.831 21.425 23.896 63.030 70.299 1998									
1960									
1961	1959	3,983	18,204	248	1,133	1,178	5,384	2,557	11,686
1962 5,029 22,115 345 1,517 1,438 6,324 3,246 14,274 1963 5,560 23,304 375 1,630 1,450 6,004 3,535 15,370 1964 5,792 24,816 384 1,645 1,560 6,684 3,848 16,487 1965 6,445 27,103 406 1,707 1,620 6,812 4,419 18,583 1966 7,216 29,501 451 1,844 1,804 7,375 4,961 20,282 1967 8,020 31,813 427 1,694 1,849 7,334 5,744 22,785 1968 8,869 33,722 462 1,757 2,881 7,913 6,326 24,053 1969 9,857 35,727 458 1,660 2,272 8,235 7,127 25,832 1970 10,288 35,403 444 1,528 2,378 8,183 7,466 25,692 1971 10,664 34,908 456 1,494 2,441 7,998 7,757 25,416 1972 11,535 36,251 463 1,455 2,562 8,510 26,744 1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 29,678 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1978 22,115 45,853 765 1,628 4,870 10,097 16,460 33,128 1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 3,476 53,429 1,035 1,815 6,550 1,483 22,919 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 77,954 2,373 3,220 12,908 17,517 41,762 56,673 1986 5,70,43 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1986 5,70,43 77,409 2,373 3,200 12,908 17,517 41,762 56,673 1987 61,003 79,148 3,583 4,618 15,153 19,532 4,667 54,997 1988 4,589 6,6072 83,122 3,507 4,372 16,531 19,532 4,667 54,997 1998 3,408 4,602 3,408 3,802 4,602 17,993 2,1608 51,676 6,008 1990 3,444 4,445	1960	4,428	19,955	297	1,338	1,196	5,390	2,935	13,227
1963	1961	4,668	20,802	314	1,399	1,165	5,192	3,189	14,211
1964	1962	5,029	22,115	345	1,517	1,438	6,324	3,246	14,274
1965	1963	5,360	23,304	375	1,630	1,450	6,304	3,535	15,370
1966	1964	5,792	24,816	384	1,645	1,560	6,684	3,848	16,487
1966	1965	6,445	27,103	406	1,707	1,620	6,812	4,419	18,583
1968 8,869 33,722 462 1,757 2,081 7,913 6,326 24,053 1969 9,857 35,727 458 1,660 2,272 8,235 7,127 25,832 1970 10,288 35,403 444 1,528 2,378 8,183 7,466 25,692 1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,416 1972 11,535 36,251 463 1,455 2,562 8,052 8,510 26,744 1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473	1966		29,501	451	1,844	1,804		4,961	
1969 9,857 35,727 458 1,660 2,272 8,235 7,127 25,832 1970 10,288 35,403 444 1,528 2,378 8,183 7,466 25,692 1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,416 1972 11,535 36,251 463 1,455 2,562 8,052 8,510 26,744 1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 <tr< td=""><th>1967</th><td>8,020</td><td>31,813</td><td>427</td><td>1,694</td><td>1,849</td><td>7,334</td><td>5,744</td><td>22,785</td></tr<>	1967	8,020	31,813	427	1,694	1,849	7,334	5,744	22,785
1970 10,288 35,403 444 1,528 2,378 8,183 7,466 25,692 1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,416 1972 11,535 36,251 463 1,455 2,562 8,052 8,510 26,744 1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 19,740 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 1 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 22,219 44,104 1983 44,588 64,733 1,760 2,555 10,288 11,541 16,155 37,731 52,815 1986 2 59,932 79,580 3,496 4,642 15,082 20,027 41,354 54,912 1987 2 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 2 3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1998 2 3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1998 2 3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1998 2 3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1998 2 3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1998 2 3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1998 2 3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1999 2 3 64,688 10,2774 5,816 6,333 21,184 23,066 67,385 73,372 1993 2 4,067 1993 2 4,067 1993 2 4,067 1993 2 4,067 1993 2 4,067 1993 2 4,067 1993 2 4,067 1993 2 4,067 1993 2 4,066 67,385 10,026 61,025 61,025 8 1,025 61,025 8 1,025 61,025 8 1,025	1968	8,869	33,722	462	1,757	2,081	7,913	6,326	24,053
1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,416 1972 11,555 36,251 463 1,455 2,562 8,052 8,510 26,744 1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 ¹ 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 ¹ 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 <th>1969</th> <td>9,857</td> <td>35,727</td> <td>458</td> <td>1,660</td> <td>2,272</td> <td>8,235</td> <td>7,127</td> <td>25,832</td>	1969	9,857	35,727	458	1,660	2,272	8,235	7,127	25,832
1971 10,654 34,908 456 1,494 2,441 7,998 7,757 25,416 1972 11,555 36,251 463 1,455 2,562 8,052 8,510 26,744 1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 ¹ 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 ¹ 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 <th>1970</th> <td>10,288</td> <td>35,403</td> <td>444</td> <td>1,528</td> <td>2,378</td> <td>8,183</td> <td>7,466</td> <td>25,692</td>	1970	10,288	35,403	444	1,528	2,378	8,183	7,466	25,692
1972 11,535 36,251 463 1,455 2,562 8,052 8,510 26,744 1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,282 1979 25,708 49,202 893 1,709 5,670 10,952 19,145 36,641 1980¹ 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981¹ 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295									
1973 13,104 39,000 499 1,485 2,832 8,429 9,773 29,086 1974 14,667 40,052 536 1,464 3,263 8,910 10,868 29,678 1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 1 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,105 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1975 15,582 38,926 573 1,431 3,440 8,594 11,569 28,901 1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 1 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47	1973		39,000	499	1,485			9,773	
1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 1 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,	1974	14,667	40,052	536	1,464	3,263	8,910	10,868	29,678
1976 17,436 41,220 634 1,499 3,912 9,248 12,890 30,473 1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 1 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,	1975	15,582	38,926	573	1,431	3,440	8,594	11,569	28,901
1977 19,340 42,959 701 1,557 4,311 9,576 14,328 31,826 1978 1 22,115 45,853 785 1,628 4,870 10,097 16,460 34,128 1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762	1976			634					
1979 25,708 49,202 893 1,709 5,670 10,852 19,145 36,641 1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1987 2 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 23 66,672 83,122 3,507 4,372 16,531 20,610 46,634 </td <th>1977</th> <td>19,340</td> <td>42,959</td> <td>701</td> <td>1,557</td> <td>4,311</td> <td>9,576</td> <td>14,328</td> <td>31,826</td>	1977	19,340	42,959	701	1,557	4,311	9,576	14,328	31,826
1980 1 30,476 53,429 1,035 1,815 6,550 11,483 22,891 40,131 1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1986 2 59,932 79,580 3,496 4,642 15,082 20,027 41,354 54,912 1987 2 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 23 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1989 23 73,501 88,268 3,832 4,	1978 ¹	22,115	45,853	785	1,628	4,870	10,097	16,460	34,128
1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1986 2 59,932 79,580 3,496 4,642 15,082 20,027 41,354 54,912 1987 2 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 2.3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1989 2.3 73,501 88,268 3,832 4,602 17,993 21,608 51,676 62,058 1990 2.3 81,602 94,327 3,760 <	1979	25,708	49,202	893	1,709	5,670	10,852	19,145	36,641
1981 35,428 56,803 1,313 2,105 8,359 13,402 25,756 41,295 1982 1 40,105 60,536 1,523 2,299 9,363 14,133 29,219 44,104 1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1986 2 59,932 79,580 3,496 4,642 15,082 20,027 41,354 54,912 1987 2 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 2.3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1989 2.3 73,501 88,268 3,832 4,602 17,993 21,608 51,676 62,058 1990 2.3 81,602 94,327 3,760 <	1980 ¹	30,476	53,429	1,035	1,815	6,550	11,483	22,891	40,131
1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1986 ² 59,932 79,580 3,496 4,642 15,082 20,027 41,354 54,912 1987 ² 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 ^{2,3} 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1989 ^{2,3} 73,501 88,268 3,832 4,602 17,993 21,608 51,676 62,058 1991 ^{2,3} 81,602 94,327 3,760 4,346 18,432 21,306 59,410 68,674 1991 ^{2,3} 90,580 101,026 6,125 6,831 21,425 23,896 63,030 70,299 1992 ^{2,4} 94,388 102,774	1981	35,428	56,803		2,105	8,359	13,402	25,756	41,295
1983 44,588 64,733 1,760 2,555 10,286 14,933 32,542 47,244 1984 51,404 71,954 2,132 2,984 11,541 16,155 37,731 52,815 1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1986 ² 59,932 79,580 3,496 4,642 15,082 20,027 41,354 54,912 1987 ² 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 ^{2,3} 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1989 ^{2,3} 73,501 88,268 3,832 4,602 17,993 21,608 51,676 62,058 1991 ^{2,3} 81,602 94,327 3,760 4,346 18,432 21,306 59,410 68,674 1991 ^{2,3} 90,580 101,026 6,125 6,831 21,425 23,896 63,030 70,299 1992 ^{2,4} 94,388 102,774	1982 ¹	40,105	60,536	1,523	2,299	9,363	14,133	29,219	44,104
1985 57,043 77,409 2,373 3,220 12,908 17,517 41,762 56,673 1986 2 59,932 79,580 3,496 4,642 15,082 20,027 41,354 54,912 1987 2 61,403 79,148 3,583 4,618 15,153 19,532 42,667 54,997 1988 2.3 66,672 83,122 3,507 4,372 16,531 20,610 46,634 58,140 1989 2.3 73,501 88,268 3,832 4,602 17,993 21,608 51,676 62,058 1990 2.3 81,602 94,327 3,760 4,346 18,432 21,306 59,410 68,674 1991 2.3 90,580 101,026 6,125 6,831 21,425 23,896 63,030 70,299 1992 2.4 94,388 102,774 5,816 6,333 21,184 23,066 67,385 73,372 1993 2.4 94,591 100,575 5,961 6,338 19,956 21,2		44,588	64,733	1,760	2,555	10,286	14,933	32,542	47,244
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1984	51,404	71,954	2,132	2,984	11,541	16,155	37,731	52,815
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1985	57,043	77,409	2,373	3,220	12,908	17,517	41,762	56,673
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
1989 2.3 73,501 88,268 3,832 4,602 17,993 21,608 51,676 62,058 1990 2.3 81,602 94,327 3,760 4,346 18,432 21,306 59,410 68,674 1991 2.3 90,580 101,026 6,125 6,831 21,425 23,896 63,030 70,299 1992 2.4 94,388 102,774 5,816 6,333 21,184 23,066 67,385 73,372 1993 2.4 94,591 100,575 5,961 6,338 19,956 21,219 68,678 73,023			83,122					46,634	
1991 2.3 90,580 101,026 6,125 6,831 21,425 23,896 63,030 70,299 1992 2.4 94,388 102,774 5,816 6,333 21,184 23,066 67,385 73,372 1993 2.4 94,591 100,575 5,961 6,338 19,956 21,219 68,678 73,023	1989 ^{2,3}								
1991 2.3 90,580 101,026 6,125 6,831 21,425 23,896 63,030 70,299 1992 2.4 94,388 102,774 5,816 6,333 21,184 23,066 67,385 73,372 1993 2.4 94,591 100,575 5,961 6,338 19,956 21,219 68,678 73,023	1990 ^{2,3}	81.602	94.327	3.760	4.346	18.432	21.306	59.410	68.674
1992 2-4 94,388 102,774 5,816 6,333 21,184 23,066 67,385 73,372 1993 2-4 94,591 100,575 5,961 6,338 19,956 21,219 68,678 73,023									
1993 ^{2,4} 94,591 100,575 5,961 6,338 19,956 21,219 68,678 73,023									
$1994^{4.9}$ $197,131$ $101,168$ $6,078$ $6,331$ $19,372$ $20,177$ 71.683 74.662	1994 ^{2,4}	97,131	101,168	6,078	6,331	19,372	20,177	71,683	74,662

See explanatory information and SOURCE at end of table.

Table A-25. Trends in company and other non-Federal funds for performance of industrial basic research, applied research, and development in the U.S., in current and in constant dollars: 1953-2001

Page 2 of 2

	Total		Basic research		Applied research		Development		
		Constant		Constant		Constant		Constant	
	Current	1996	Current	1996	Current	1996	Current	1996	
	dollars	dollars	dollars	dollars	dollars	dollars	dollars	dollars	
Year	[In millions of dollars]								
1995 ^{2,4}	108,652	110,756	5,379	5,483	23,755	24,215	79,516	81,056	
1996 ^{2,4}	121,015	121,015	6,848	6,848	25,370	25,370	88,798	88,798	
1997 ^{2,4}	133,611	131,055	8,766	8,598	29,782	29,212	95,064	93,246	
1998 ^{2,4,5}	145,016	140,519	4,851	4,701	29,576	28,659	110,590	107,161	
1999 ^{2,4,5}	160,176	153,059	5,362	5,124	33,309	31,829	121,690	116,283	
2000 ^{2,4,5} 2001 ^{2,4,5}	180,421	168,791	6,017	5,629	36,130	33,801	138,274	129,361	
2001 ^{2,4,5}	181,606	165,971	7,157	6,541	39,883	36,449	134,566	122,981	

¹ Character-of-work estimates were made by the National Science Foundation. See National Science Foundation, *National Patterns of R&D Resources: 1998* (NSF 99-335).

NOTES: The R&D in this table is the industrial R&D performed within company facilities funded from all sources except the Federal Government. The funds predominantly are the company's own, but also include funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and State governments. Excluded from this table are company-funded R&D not performed within the company (e.g., R&D contracted out to other organizations) and company-funded R&D not performed within the 50 U.S. states or D.C. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

Gross domestic product (GDP) implicit price deflators were used to convert current dollars to constant (1996) dollars.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001

² The character-of-work estimation procedure was revised for 1986 and later years and resulting statistics are not directly comparable with earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at http://www.nsf.gov/sbe/srs/sird/start.htm.

³ As a result of a new sample design, statistics for 1988-91 were revised after they were originally published and are not directly comparable with statistics for earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at http://www.nsf.gov/sbe/srs/sird/start.htm

⁴ As a result of annual sampling, implemented to produce statistics that better reflect R&D performance among firms in nonmanufacturing industries and small firms in all industries, statistics for 1992 and later years are not directly comparable with statistics for earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at http://www.nsf.gov/sbe/srs/sird/start.htm.

⁵ Using data collected during recent cycles of the survey, NSF investigated a potential reporting anomaly for basic research and found that severa large companies, known to develop and manufacture products, reported all R&D as basic research. This phenomenon prompted a renewed effort to strengthen character of work estimates produced from the survey. Consequently, improved edit checks were applied during statistical processing to produce the 2001 basic research, applied research, and development estimates. Also, estimates for 1998, 1999, and 2000 were recalculated.